Manuals+

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COOPER
Lighting Solutions

Cooper Lighting HLCE4079FS1E Selectable Surface Mount LED Disk Lights

Specifications

- **Product Name**: HLCE Selectable Surface Mount LED Disk Lights
- **Types Available**: 4-inch and 6-inch Disk Lights
- **Features**: Low-profile, dimmable to 10%, damp-listed
- **Mounting**: Directly mountable to junction boxes or recessed housings
- **Compliance**: Title 24 Part 6 LED Enclosed Light Source Requirements (JA8)

HLCE Selectable Surface Mount LED Disk Lights

Low-profile selectable 4″ and 6″ Disk Lights that are damp-listed, dim to 10%, and mount directly to junction boxes or recessed housings. Decorative overlays and California versions are available. (1)

Typical Applications

- Residential
- Multifamily
- Hospitality
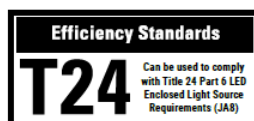
Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.(2)
Certified to California Appliance Efficiency Database under JA8. (2)

Interactive Menu

- Order Information
- Product Specifications
- Photometric Data
- Product Warranty
- Dimming Guide

Top Product Features

- Field selectable 5CCT (2700K, 3000K, 3500K, 4000K, 5000K), 90 CRI minimum
- Below the ceiling installation, no clips or plates needed
- Installs in most 3-1/2″ and 4″ standard and pancake junction boxes (see Compatible Junction Boxes)
- Dimmable down to 10%1
- Damp Location Listed

Dimensional and Mounting Details

HLCE6129FS1E
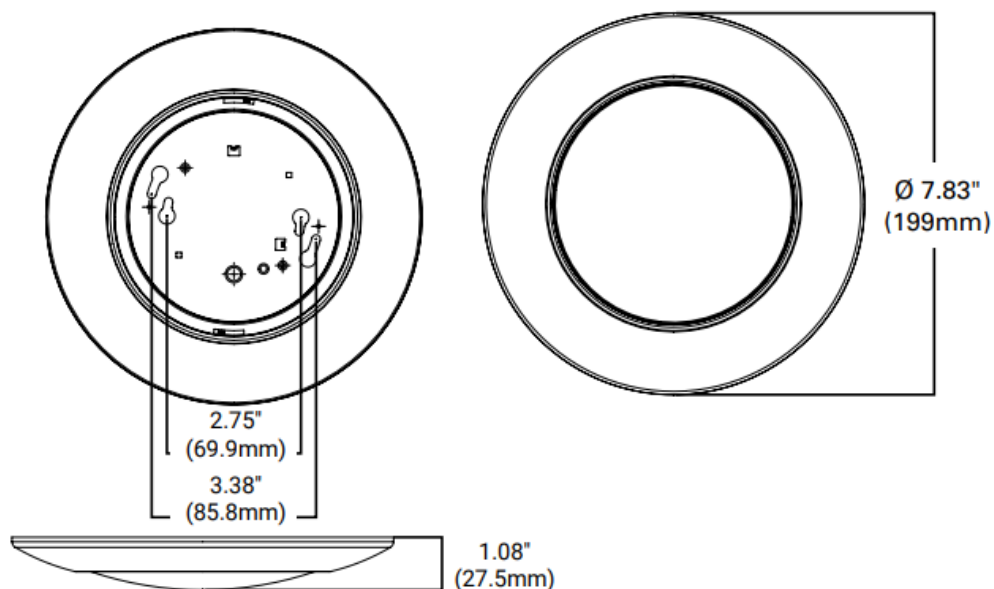
HLCE4079FS1E

Order Information

4″ Disk Light

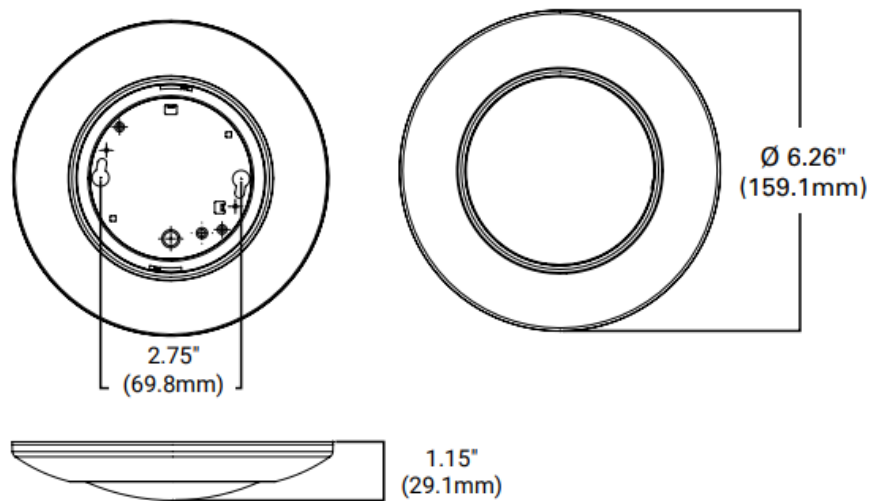| Catalog Number	Description	CRI	CCT	Dimming	Finish	Packaging	Packaging Dimensions	UPC
HLCE4079FS1E	4-inch LED Disk Light, 900 lumens	90+CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	Single Pack	6.9″x 1.8″x 6.9″	0800 8328 6904
HLCE4079FS1E-12P	4-inch LED Disk Light, 900 lumens	90+CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	12 Pack	16.9″ x 8.6″ x 8″	0800 8328 6706

HLCE4 079FS 1E-18P	4-inch LED Disk Light, 900 lumens	90 + C RI	5CCT (2700K, 3000K, 3500K , 4000K, 5000 K)	Phase C ut dimmi ng 10%	Mat te Whi te	18 Pa ck	15.4″ x 13.4 ″ x 8″	0800 8328 6744
HLCE4 079FS 1E-CA	4-inch LED Disk Light, 900 lumens	90 + C RI	5CCT (2700K, 3000K, 3500K , 4000K, 5000 K)	Phase C ut dimmi ng 10%	Mat te Whi te	Single Pack Califor nia	6.9″x 1.8″x 6.9″	0800 8328 6942
HLCE4 079FS- 12P-C A	4-inch LED Disk Light, 900 lumens	90 + C RI	5CCT (2700K, 3000K, 3500K , 4000K, 5000 K)	Phase C ut dimmi ng 10%	Mat te Whi te	12 Pa ck Cali fornia	16.9″ x 8.6″ x 8″	0800 8328 6782
HLCE4 079FS- 18P-C A	4-inch LED Disk Light, 900 lumens	90 + C RI	5CCT (2700K, 3000K, 3500K , 4000K, 5000 K)	Phase C ut dimmi ng 10%	Mat te Whi te	18 Pa ck Cali fornia	15.4″ x 13.4 ″ x 8″	0800 8328 6829

6″ Disk Light

HLCE6 129FS 1E	6-inch LED Disk Light, 1200 lumen	90 + C RI	5CCT (2700K, 3000K, 3500K , 4000K, 5000 K)	Phase C ut dimmi ng 10%	Mat te Whi te	Single Pack	8.5″x 1.8″x 8.5″	0800 8328 6928

HLCE6 129FS 1E-6P	6-inch LED Disk Light, 1200 lumen	90+ CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	6 Pack	10.2″ x 9.5″ x 9.6″	0800 8328 6867
HLCE6 129FS 1E-12P	6-inch LED Disk Light, 1200 lumen	90+ CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	12 Pack	16.5″ x 10.3″ x 9.6″	0800 8328 6720
HLCE6 129FS 1E-18P	6-inch LED Disk Light, 1200 lumen	90+ CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	18 Pack	18.7″ x 13″ x 9.6″	0800 8328 6768
HLCE6 129FS 1E-CA	6-inch LED Disk Light, 1200 lumen	90+ CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	Single Pack California	8.5″x 1.8″x 8.5″	0800 8328 6966
HLCE6 129FS-6P-CA	6-inch LED Disk Light, 1200 lumen	90+ CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	6 Pack California	10.2″ x 9.5″ x 9.6″	0800 8328 6881
HLCE6 129FS-12P-CA	6-inch LED Disk Light, 1200 lumen	90+ CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	12 Pack California	16.5″ x 10.3″ x 9.6″	0800 8328 6805

HLCE6129FS-18P-CA	6-inch LED Disk Light, 1200 lumen	90+ CRI	5CCT (2700K, 3000K, 3500K, 4000K, 5000K)	Phase Cut dimming 10%	Matte White	18 Pack California	18.7″ x 13″ x 9.6″	0800 8328 6843

Accessories (sold separately)

Accessories

Designer Trim Accessories

- HLCE4TRMMW = 4″ round Paintable Matte White Overlay
- HLCE4TRMMB = 4″ round Matte Black Overlay
- HLCE4TRMSN = 4″ round Satin Nickel Overlay
- HLCE4TRMTBZ = 4″ round Tuscan Bronze Overlay
- HLCE6TRMMW = 6″ round Paintable Matte White Overlay
- HLCE6TRMMB = 6″ round Matte Black Overlay
- HLCE6TRMSN = 6″ round Satin Nickel Overlay
- HLCE6TRMTBZ = 6″ round Tuscan Bronze Overlay

Note: Non-California versions include an E26 medium screw-base Edison adapter for installation into compatible housings.

Decorative Overlay Finishes
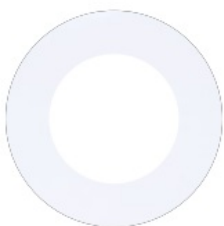
Paintable Matte White

Matte Black

Satin Nickel

Tuscan Bronze

Compatible Junction Boxes

4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)
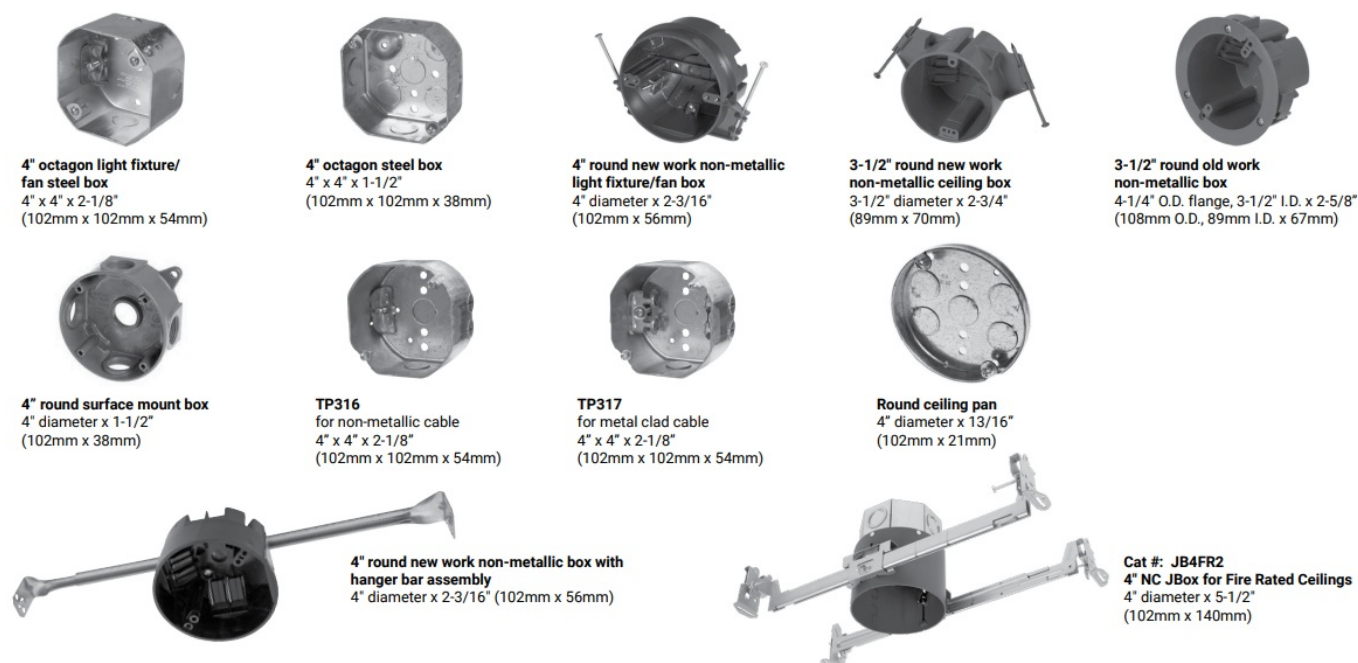
4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)

4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)

3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)

3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)

4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)

TP316
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

TP317
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

Round ceiling pan
4" diameter x 13/16"
(102mm x 21mm)

4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)

Cat #: JB4FR2
4" NC JBox for Fire Rated Ceilings
4" diameter x 5-1/2"
(102mm x 140mm)

1. This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to
be reliable, but has not been verified. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the mounting bracket in the box.

2. 4″ HLCE only mounts to junction boxes that include mounting screws that are 2.73″ apart. Please verify prior to purchasing junction boxes.

Housing – Compatibility

The non-California HLCE Series LED Disc Light is UL Certified for use with the following recessed housings.

HLCE4 & HLCE6	**4″ Housings** **E4TATSB** = 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V **E4RTATSB** = 4" non-IC, airtight shallow remodeler housing, adjustable socket bracket, E26, 120V **E4ICATSB** = 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V **Fire Rated** **JB4FR2** = 4″ New Construction JBox for fire rated ceilings, IC, 2HR **H450FR2ICATD010** = 4″ New Construction, IC, Fire Rated Housing 2 hour fire rated
HLCE4 & HLCE6	**5″ Housings** **H25ICAT =** 5" IC, airtight shallow new construction housing **H5ICAT =** 5″ Insulated Ceiling, Air-Tite New Construction Housing **H5RICAT =** 5″ IC, airtight remodel housing, E26 medium base, 120V **E5ICAT =** 5″ IC, airtight new construction housing, E26 medium base, 120V **E5RICAT =** 5″ IC, airtight remodeler housing, E26 medium base, 120V

HLCE6	**6″ Housings** **H27ICAT =** 6" IC, airtight shallow new construction housing **H27RICAT** = 6" IC, airtight shallow remodel housing **E27ICAT** = 6" IC, airtight shallow new construction housing **E27RICAT** = 6" IC, airtight shallow remodel housing **E27TAT** = 6" non-IC, airtight shallow new construction housing **E27RTAT** = 6" non-IC, airtight shallow remodel housing **H7ICAT =** 6″ IC, airtight new construction housing, E26 medium base, 120V **H7RICAT =** 6″ IC, airtight remodel housing, E26 medium base, 120V **E7ICAT =** 6″ IC, airtight new construction housing, E26 medium base, 120V **E7RICAT =** 6″ IC, airtight remodeler housing, E26 medium base, 120V **E7TAT =** 6″ non-IC, airtight new construction housing, E26 medium base, 120V **E7RTAT =** 6″ non-IC, airtight remodeler housing, E26 medium base, 120V

Product Specifications

Construction

- Stamped steel

Optics

- Precision-engineered optic provides uniform luminance from a low-profile convex lens
- Removable lens for easy installation from below

LED

- Back lit LED technology
- 5CCT Field Selectable color temperature (2700K, 3000K, 3500K, 4000K, 5000K)
- Color Quality: 90 CRI minimum
- Color Accuracy within 6 SDCM at the CCT endpoints, provides color accuracy and uniformity
- Expected Life: L70 at 50,000 hours projected in accordance with TM-21

Driver

- The integral 120V 60 Hz constant current driver provides noise-free operation
- Continuous, flicker-free dimming from 100% to 10% (See Dimming Guide for compatible dimmers)

Dimming

- Continuous, flicker-free dimming from 100-10% with 120V phase cut Leading Edge (LE) and Trailing Edge (TE) dimmers.

TIPS: For optimal dimming performance, consider dimmers with low-end trim adjustment and note that some dimmers require a neutral wire in the wallbox. (See the HLC Dimming Guide and then consult the dimmer manufacturer for compatibility and conditions of use.)

Electrical Junction Box Mounting

- HLCE fixtures may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Installs from below the ceiling
- Suitable for installation in most 3-1/2″ and 4″ octagon and round electrical junction boxes.
- Compatible with compact (pancake) junction boxes
- Installer must ensure compatibility of fit, wiring, and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes NEMA LSD 57-2013

Recessed Housing Mounting

- Extension Springs for 5″ & 6″ housings included in the box
- Not for use in recessed housings in direct contact with spray foam insulation, refer to NEMA LSD 57-2013
- Compatible with Halo 5″ and 6″ housings

Electrical Power Connections

- Wire nuts provided for mains connections
- The included E26 medium screw-base Edison adapter provides easy retrofit of incandescent housings (non-California product only).

Compliance

- cULus certified for US and Canada
- Damp location listed
- Airtight per ASTM-E283 (no gasket necessary)
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant2
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- ENERGY STAR® certified, reference Certified Light

Fixtures database

- Certified to the State of California Title 20, State-regulated LED Lamp; reference the Modernized Appliance Efficiency Database System (MAEDBS) for State-regulated LED Lamp
- Can be used for State of California Title 24 high efficacy LED compliance under JA82, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2022 JA8 High Efficacy Lighting

Warranty

- Five-year limited warranty, consult the website for details.
 www.cooperlighting.com/warranty

Energy Data

	HLCE4079FS1E	HLCE6129FS1E
Lumens (nom)	900	1200
Input Voltage (VAC)	120	120
Input Current (A)	0.091	0.119
Efficiency (LpW)	78	74
Inrush Current (A)	0.81	0.912
Inrush Duration (ms)	72	75
THD	45	45
PF	≥ 0.90	≥ 0.90
T Ambient (C)	25°C	25°C
Sound Rating	≤ 20dBA	≤ 20dBA

Catalog Number	CCT	Watts	lumens	LPW	CRI
	2700K	12.8	1025	80.2	93
	3000K	12.5	1040	83.2	93
	3500K	12.9	1085	84.3	93

Catalog Number	CCT	Watts	lumens	LPW	CRI
HLCE4	4000K	12.9	1095	84.8	93
	5000K	12.8	1070	83.7	93

Catalog Number	CCT	Watts	lumens	LPW	CRI
HLCE6	2700K	14.8	1200	81.1	93
	3000K	14.8	1220	82.4	93
	3500K	15.0	1275	85.3	93
	4000K	14.9	1280	85.8	93
	5000K	14.8	1260	85.2	93

Photometric Data
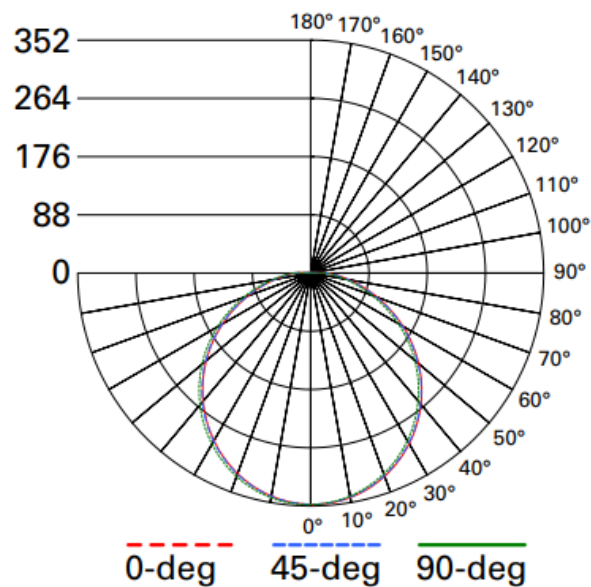
HLCE4079FS1EWH-3000K

- Spacing criterion: (0-180) 1.25 | (90-270) 1.26 | (Diagonal) 1.37
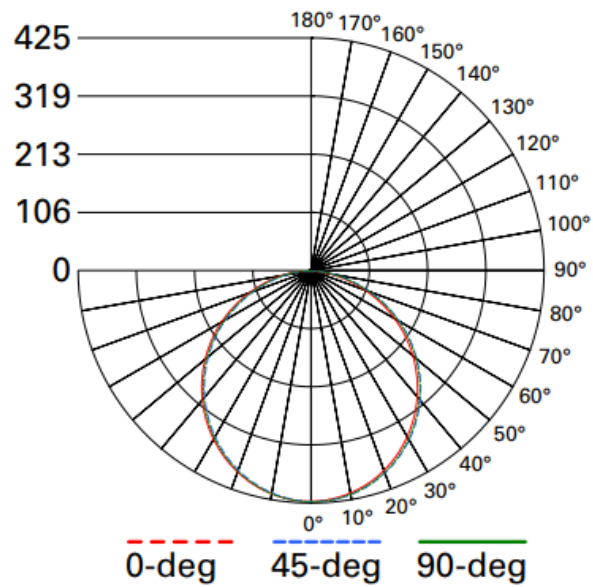- Beam Angle: 113°
- Field Angle: 169°
- Lumens: 1040

- Input Watts: 12.5 W
- Efficacy: 83.2 LPW
- UGR: 21
- Test Report: P855574

Zonal Lumen	Lumens	% Lumens
0-30	272	26.2
0-40	446	42.9
0-60	791	76.1
0-90	1040	100

TM-30-15	Rf = 92	
	Rg = 101	
CRI/CIE	Ra = 96.2	
	R9 = 76.8	

113°

HLCE6129FS1EWH-3000K

- Spacing criterion: (0-180) 1.25 | (90-270) 1.251 (Diagonal) 1.37
- Beam Angle: 112°
- Field Angle: 165°
- Lumens: 1220
- Input Watts: 14.8 W
- Efficacy: 82.4 LPW
- UGR: 21
- Test Report: P855579

Zonal Lumen	Lumens	% Lumens
0-30	328	26.9
0-40	536	43.9
0-60	947	77.6
0-90	1220	100

TM-30-15	Rf = 92
	Rg = 101
	Ra = 96.2

CRI/CIE	
	R9 = 76.4

112°

C12 Higina Solutions.

Peachtree City, GA 30269 P: [770-486-4800](tel:770-486-4800) www.cooperlighting.com A Ignese Wehting Solutions Specifications and dimensions subject to change without notice

FAQs

Q: Are these Disk Lights suitable for use in California?

A: Yes, California versions of the Disk Lights are available with specific packaging dimensions to comply with California regulations.

Q: What is the Color Rendering Index (CRI) of these lights?

A: The lights have a CRI of 90+ for high-quality color rendering.

Q: Can these Disk Lights be dimmed?

A: Yes, these lights are dimmable to 10% brightness using Phase Cut dimming technology.

Documents / Resources

	[Cooper Lighting HLCE4079FS1E Selectable Surface Mount LED Disk Lights](#) [[pdf](#)] User Manual
	HLCE4079FS1E, HLCE4079FS1E-12P, HLCE4079FS1E-18P, HLCE4079FS1E-CA, HLCE4079FS-12P-CA, HLCE4079FS-18P-CA, HLCE4079FS1E Selectable Surface Mount LED Disk Lights, HLCE4079FS1E, Selectable Surface Mount LED Disk Lights, Surface Mount LED Disk Lights, Mount LED Disk Lights, LED Disk Lights, Disk Lights, Lights

References

- [User Manual](#)

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🏷 COOPER Lighting, Disk Lights, HLCE4079FS-12P-CA, HLCE4079FS-18P-CA, HLCE4079FS1E, HLCE4079FS1E Selectable Surface Mount LED Disk Lights, HLCE4079FS1E-12P, HLCE4079FS1E-18P, HLCE4079FS1E-CA, LED Disk Lights, Lights, Mount LED Disk Lights, Selectable Surface Mount LED Disk Lights, Surface Mount LED Disk Lights

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